



*ARGYRANTHEMUM FRUTESCENS PLANT NAMED ('S&G 30032') 'ARGYDOWITIS'*

**Latin name of the genus and species of the plant claimed**

5   *Argyranthemum frutescens*

**Varietal Denomination**

*'Argyranthemum' (S&G 30032) 'Argydowitis'*

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**Background of the invention**

The present invention relates to a new and distinct cultivar of Marguerite Daisy plant, botanically known as *Argyranthemum frutescens* and referred to by the cultivar name 'SG 30032' 'Argydowitis'. The new cultivar is a product of a planned breeding program conducted by 15 the inventor in Enkhuizen, The Netherlands. The objective of the breeding program was to develop a more vigorous plant that flowers early with a good field performance during the whole summer.

**Description of the drawing**

20   This new Marguerite Daisy plant is illustrated by the accompanying photographic drawing which shows blooms, buds and foliage of the plant in full color, the color shown being as true as can be reasonably obtained by conventional photographic procedures. The depicted plant is of the same age as disclosed in the botanical description.

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**Description of the new cultivar**

The following detailed descriptions set forth the distinctive characteristics of this new Marguerite Daisy plant. The data which defines these characteristics were collected from asexual reproductions carried out in Enkhuizen, The Netherlands. The plant history was taken on 20 weeks old plants, 30 grown in the greenhouses in Enkhuizen, The Netherlands with day temperatures ranging from 12 to 18 degree C, and night temperatures ranging from 10 to 14 degrees Celsius.

Color references are primarily to the RHS Color-Colour Chart of the Royal Horticultural Society of London where general terms of ordinary dictionary significance are used.

### The Plant

5 Classification - Botanical : Argyranthemum frutescens ev. 'SG 30032' "Argydowitis"

### Parentage

Female parent : proprietary seedling selection of Argyranthemum frutescens, identified as number 'A 40-16' (unpatented).  
 10 Breederscode of the new plant is 'C 45-6'.  
 Male parent : unidentified selection of Argyranthemum frutescens

### Propagation

Type cuttings : Terminal cuttings  
 15 Time to initiate roots : 7 to 10 days at air temperature of 21 degree C.  
 Time to develop roots : 7 to 14 days at air temperature of 18 degree C.

### Plant Description

Growth habit : upright  
 20 Plant height : 25-28 cm  
 Vigor : Vigorous  
 Spreading area of plant : 25-30 cm  
 Strength : Very good  
 Branching Character : Freely branching, plants do not require pinching  
 25 Crop time : About 10 weeks are required to produce a finished flowering plant in a 10.5 cm container from a good developed cutting

### The Stem

30 Diameter : 4 mm

|                        |   |                    |
|------------------------|---|--------------------|
| Shape                  | : | round, bit grooved |
| Anthocyan pigmentation | : | absent             |
| Length of internode    | : | 1,5-2,5 cm         |
| Pubescence             | : | absent             |
| 5 Color                | : | 143C               |

**The Foliage**

|  |        |                        |
|--|--------|------------------------|
| Arrangement  | :      | alternate              |
| Shape of leaf  | :      | bipinnatisect          |
| 10 Leaf apex   | :      | acute                  |
| Leaf base  | :      | attenuate              |
| Texture  | :      | thick glabrous smooth  |
| Length   | :      | 6 – 7 cm               |
| Width  | :      | 3 – 3,5 cm             |
| 15 Depth of incision = margin                        | :      | lancinate              |
| Color relating to both juvenile and<br>mature leaves | -      | Upper side : 133A-139A |
|  | -      | Lower side : 138B      |
| Pubescens  | :      | absent                 |
| 20 Petiole   | :      | absent                 |
| Venation   | -shape | : pinnate              |
|  | -color | : 138A                 |

**The Flower Bud**

|             |            |   |          |
|-------------|------------|---|----------|
| 25 Peduncle | Length     | : | 6 -10 cm |
|             | Strength   | : | strong   |
|             | Texture:   | : | smooth   |
|             | Color      | : | 144A     |
| Size bud    | - Diameter | : | 4-7 mm   |
| 30          | - Length   | : | 4-5 mm   |

Shape flower bud : flattened, round

Color bud : 163C

### Inflorescence

|    |                            |  |
|----|----------------------------|--|
| 5  | Diameter                   | : 4,2 – 5,0 cm   |
|    | Form                       | : Capitula with 2 series of ray florets and 10-15 series of grown disc florets, which give the semi double impression. |
|    | Receptacle height          | : 0,5 cm   |
|    | Involucre/phyllaries       | : 3 series of 5 bracts, tightly to receptacle  |
| 10 | Shape                      | : elliptic, with broad apex  |
|    | Margin                     | : entire   |
|    | Length                     | : 2-3 mm   |
|    | Color                      | : upper: 143A<br>Lower: 143A   |
| 15 | Fragrance                  | : absent   |
|    | Quantity of inflorescences | : ±60-100 flowers/plant depending on age and growing conditions.   |
|    | Flowering period           | : April till October in N-W Europe, plants flower continuously during this period.                                     |
| 20 | Lastingness of blooms      | : 7-10 days  |

### Ray Florets

|    |                                 |                           |
|----|---------------------------------|---------------------------|
|    | Shape of ray florets            | : ligulate                |
|    | Apex                            | : rounded, little incised |
| 25 | Base                            | : cordate                 |
|    | Margin                          | : entire                  |
|    | Color                           | : 155C                    |
|    | No. of ray florets per inflor.  | : 22-26                   |
|    | Size of the ray floret - Length | : 1,4 – 1,7 cm            |
| 30 | - Width                         | : 0,4 – 0,7 cm            |

Texture : smooth

### Disc Florets

5 Shape of disc florets : tubular (trumpet shape) with 5 lobes  
 Color : 12A  
 Diameter of disc floret – young : 1 mm  
                                  -old : 3 mm  
 Number of disc florets/flower : ±80

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### Androecium

Anther color : yellow 15A  
 Pollen color : yellow 15A  
 Amount of pollen : only in disc florets little pollen

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### Gynoecium

#### Gynoecium:

Pistil number : one per floret (ray florets only)  
 Pistil length : about 2mm  
 20 Style color : yellow green 144D  
 Style length : about 2mm  
 Stigma color : yellow orange 14A  
 Stigma shape : bilobed  
 Ovary color : 144C

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### Disease resistance

: No susceptibility nor resistance to fungal, bacterial or viral pathogens has been noted. Material is free of virus and Chrysanthemum stunt viroid (CSVd).

30 Seed : seed production is not observed

**Physiological and ecological characteristics:**

- 5 Comparison with Sugar Buttons and SG30032 on characteristics in which the new plant differs:

|                  | <u>'Sugar Buttons' (PP 11,980)</u>  | <u>SG30032 'Argydowitis'</u>             |
|------------------|-------------------------------------|--|
| Plant height     | 19-22 cm                            | 25-28 cm                                 |
| Plant habit      | compact                             | upright                                  |
| Flower diameter  | 3 <sub>.5</sub> 0-3 <sub>.5</sub> 5 | 4 <sub>.5</sub> 2 - 5 <sub>.5</sub> 0 cm |
| 10 Foliage color | 137 A - 137B                        | 133A - 139A                              |

No description on parental lines available. Material no longer exists as such.

**What is claimed is:**

A new and distinct variety of Argyranthemum plant, substantially as herein illustrated and described, characterized particularly as to novelty by its vigorous but sturdy upright plant habit with continuous flowering during the season, large semi-double white flowers and dark green  
5 foliage, flowering the whole summer.

**Abstract**

A distinct cultivar of Marguerite Daisy plant named ‘SG 30032’ ‘Argydowitis’ characterized by its upright vigorous plant habit, good field performance, large semi-double white flowers, dark green coloured-colored leaves, freely flowering with numerous inflorescences per plant.